

## General Faculties Council scraps Writing Competence Test

The University of Alberta's Writing Competence Test requirement has discontinued. By a count of 57 General Faculties Council voted to drop the controversial test which was first proposed and piloted in 1979. GFC's 20 March action takes effect immediately.

Discontinuance of the test was proposed in the first resolution of a series of 22 resolutions regarding education, developed by a U of A/Alberta Education joint

committee. The test has been dropped on the understanding that "the GFC Writing Competence Committee will monitor and inform GFC on an annual basis of the writing competence of applicants and students at the University of Alberta and maintain liaison with Alberta Education."

The development of a writing centre on campus was referred to, in particular by Larry McKill (English), who participated in the

start up of the Writing Competence Test requirement. The University has highly trained people, who have marked thousands and thousands of papers in the last few years, and should move to retain this expertise, he said.

The joint committee's Resolution 4 states: "That the University of Alberta recognize that, in admitting students who have grades below 65 percent in English 30, it also accepts the responsibility for

providing special encouragement and training to assist such students to develop thinking and communications skills appropriate for university level work."

Brian Silzer, Registrar, stated that 822 of 3,524 incoming students last fall had an English 30 mark of less than 65 percent. These students should be encouraged—but not required—to take advantage of remedial programs, said Elana Scraba, Associate Director, Student Programs and Evaluation Division, Alberta Education.

Linda Woodbridge, Chair of English, was in favor of the set of resolutions but expressed doubt that students will rush off to take a remedial course. She pointed out that remedial activity will take time away from the 75 percent of students who don't need extra work.

Susan Jackel, Chair of the Writing Competence Committee, said she found the resolutions "more than acceptable," and committee member Jim Forrest said GFC's action marks an advance in that "we have the full cooperation of Alberta Education."

Another optimistic point was voiced by Dr Scraba, who said that regular achievement programs, which include "extensive assessment" of students' writing, are in place in grades 3, 6 and 9. "These programs didn't exist six years ago; they should have some impact down the road," she said.\*□

*\*AIDS guidelines and other items dealt with by GFC will be reported on next week.*

# FOLIO

University of Alberta

30 March 1989



Sculpture students weld a new steel sculpture designed by Anthony Caro. "I'm very impressed with the students here," says Sir Anthony. "These young people coming up are really extraordinary." Story on page four.

University of Alberta

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- Profiles of Kaplan Award recipients Paul Kekarle and John Orrell
- Dean's MBAA Forum Dinner

Public Affairs

Folio, 30 March 1989

## 'Democracy should be seen as collaboration in a shared venture,' Dworkin says

Ronald Dworkin delivered the inaugural McDonald Constitutional Lecture, sponsored by the University of Alberta's new Centre for Constitutional Studies, on 13 March. Professor Dworkin holds the Chair of Jurisprudence at Oxford University, said to be the preeminent post for legal theorists in the English-speaking world, and also is Professor of Law at New York University.

In his address, Professor Dworkin explored the common view that a constitution such as *The Charter of Rights and Freedoms* is fundamentally at odds with the principles of democratic government because it prohibits certain kinds of legislation, even if a majority of people might want them. The view is often held by politicians, judges, and citizens despite their support of the freedoms protected by the Charter.

Professor Dworkin argued that there is no real conflict if we understand democracy to be more than a simple majority rule.

The prevailing view of democracy is one in which individuals fight for their own best interests, believing that whatever results from that process is good for the community as a whole.

Instead, Professor Dworkin said, democracy should be seen as collaboration in a shared venture,

in which each person contributes through independent judgment and action while at the same time feeling that the overall outcome reflects on them personally. In such a government, he said, "You and I can disagree as to where the state should be going, while each thinking that his or her own life goes better or worse depending upon where the state does go."

This concept does not suggest that the state is more important than the individual. Rather it's the kind of shared responsibility we already welcome in orchestras, teams, work groups, and so on. Professor Dworkin said, "Once you unloose this idea it seems to me we see it all around us."

In a later interview, Professor Dworkin acknowledged that this vision of democracy offers a substantial challenge. Any form of democracy is hard to achieve, and this one is especially difficult.

But then he stressed that whether or not it is realizable is immaterial. Referring once more to people's concerns about the restrictiveness of a constitution, he said, "The objection is that it goes against our ideals of democracy. My argument is, no it doesn't . . . What I'm suggesting is that we can see democracy, as an ideal, as including this [vision]."

## Centre for Constitutional Studies promotes academic research and debate

The Centre for Constitutional Studies was established just over a year ago, out of a collaboration among the Departments of History and Political Science and the Faculty of Law. Funded by the Alberta Law Foundation, the Centre's purpose is to encourage and facilitate a widely interdisciplinary study of constitutional matters.

Along with the promotion of academic research and debate, the Centre's functions include an annual national constitutional

conference. The first was held last spring on the subject of Canadian Senate reform; this April the topic will be linguistic rights in Canada.

The McDonald Constitutional Lecture is made possible by the generosity of the Honorable Justice David C McDonald (Alberta Court of Queen's Bench). It will annually bring leading constitutional scholars to the University for public lectures on issues concerning the constitutional rights that have become so prominent in the current Canadian public agenda. □

## Revamped tuition fee assessment a boon to undergraduate students

At its meeting on 3 February, the Board of Governors approved a revised method for the assessment of undergraduate tuition fees.

The new system will have tuition fees assessed on a per course basis without maximum. The dollar value per unit of fee index (normally course weight times two) will be adjusted to provide equal revenue to the University. This will result in a decrease in the cost to students for a single course. The old method assessed fees on a per course basis to a maximum and required that some students pay more for a particular course than others, depending on their status or Faculty of enrolment. The old system was inequitable, awkward to administer, and difficult for students to understand. The new system will be more equitable—the more courses taken, the greater the fee. In addition, the same cost for

all students taking a particular course will be more understandable, and easier to administer and automate.\*□

\*Reprinted from *Rumor*, Issue No. 43.

## Faculty studies 1989-90

Applications for faculty studies (Cameron and Rutherford Libraries) for the 1989-90 year are now being accepted. Application forms and the guidelines for allocation are available from department offices or the office of the Chief Librarian, 5-02 Cameron Library.

The closing date for applications is 1 May 1989. □

# FOLIO

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## Paul Kebarle: the ions have it

Paul Kebarle has one good thing to say about his undergraduate training in Switzerland: it taught him to think independently. He explains, "In the lab, you were just given a piece of paper and told, 'Do this.' They didn't help. You just had to read up on how to do it."

Figuring out how to do things led Professor Kebarle to do pioneering work in ion chemistry (ions are molecules with a positive or negative charge). Chemists had long been interested in what happens as ions change from a gas to a liquid state, but had made little progress.

To understand the process, it was necessary first to study ion molecules in the gas state in order to understand their basic nature, and then to add liquid solvent one molecule at a time to monitor the progression from a gas to a liquid state. There were no satisfactory experimental methods for either task. By accident, he says, Professor Kebarle discovered ways to do both.

Professor Kebarle is credited with doing elegant work, seeing complex problems with great simplicity. For example, ion chemistry involves huge numbers of interactions between ions and solvent molecules, and that magnitude stymied scientists for a long time. "It's always difficult to think about something where [there are] interactions not one-on-one, but one-with-thousands," he says.

Rather than being intimidated, Kebarle guessed that the interaction between a molecule and its closest neighbors would be most important, and set about measuring them. He was right, and his observations have been the foundation for rapid theoretic advances. "It was nice to see that there isn't really such a mystery," he says quietly.

He began undergraduate training in Bulgaria, where he was born, but he wanted to get out from under Communist rule. He got permission as a former Czech national (through his father's family) to move to Czechoslovakia, which was half-free at the time.

Once there he applied for a visa to emigrate to Switzerland. He says, "The moment I got it, I took the plane," which was a good thing. Five days after he left in early 1948,

Czechoslovakia turned Communist and the borders were closed.

After completing his undergraduate training in Switzerland, he went to the University of British Columbia for his PhD. He held a postdoctoral fellowship at the national Research Council in Ottawa, then joined the Department of Chemistry at the University of Alberta in 1958.

An illustrious career has unfolded since then, although Kebarle modestly deflects praise for the significance of his contributions. "There were lots of problems to address," he says, as if that explained it all. □



Public Affairs

Paul Kebarle. He and Dr Orrell, this year's recipients of the Kaplan Award for Excellence in Research, will speak on 3 April, 8 pm, in SUB Theatre.

## Orrell overcomes ides of March

The ides of March and a persnickety computer tried to bollix up the works for John Orrell. He had his Awards Night talk, "The Quest for Shakespeare's Globe," and the material for a lecture in Los Angeles safely committed to computer disk. Or so he thought. On the ides the disk "flipped" and the "quest" in his lecture title assumed another meaning.

At last report he was confident of recovering his material but if he doesn't he's able to move quickly to fend off assorted slings and arrows. During Reading Week, for example, he had to "dash over" to London and the Globe Theatre site because an archeological dig, after sifting through remnants of 17th-century houses, unearthed traces of the Rose, the Globe Theatre's neighbor. The developer of the Globe reconstruction project was all for starting the piling but, mercifully, Dr Orrell and others were able to persuade him to let the dig continue for another 10 weeks. Dr Orrell, chief architectural consultant for the project, will return in May to continue his investigation.

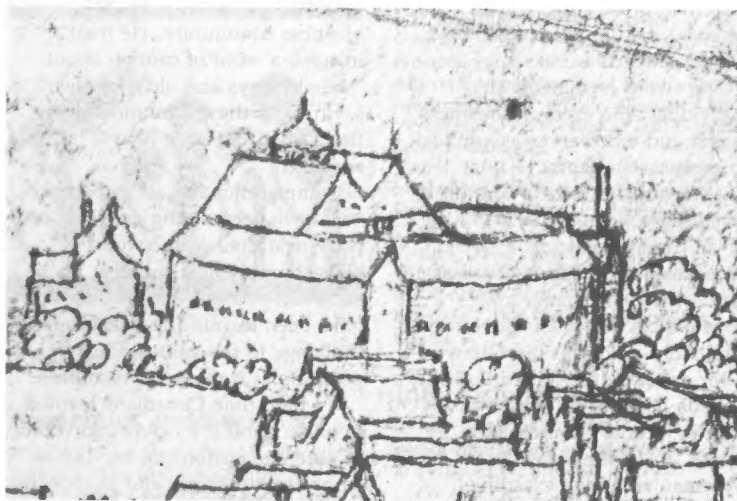
"It's the first time we've found archeological remains of an Elizabethan theatre," he says of the Rose, which was built in 1587 and is the earliest Elizabethan playhouse. (The Globe was built in 1599, about 50 yards away from the Rose. Along with the Swan and other theatres, this area on the south bank of the Thames was where the citizenry got its entertainment fix.)

The remains of the Rose stir Dr Orrell's blood because there are no architectural drawings of any of these playhouses. "There are a few etchings and engravings, but they're not proper depictions and you have to clear them out of your mind," he says. The basis of his research into a painstaking reconstruction of the Globe is one "outstandingly good drawing of the rebuilt Globe." This was produced by Wenceslaus Hollar, a Bohemian artist who lived in London in the 1630s and 1640s.



Public Affairs

Continued on page five John Orrell



Hollar's sketch of the rebuilt Globe, made about 1640. The new Globe is scheduled to be completed in 1992 (this may have to be revised) as the focal point of a tourist attraction package that includes Saint Paul's, the Tower of London, and HMS Belfast. In addition to two performance areas, the Globe complex will contain a museum, audiovisual archives of Shakespearean plays, a restaurant and assorted shops.

## Master sculptor likes what he sees in Edmonton

"Some of the best sculpture in the world is made here in Edmonton," says British sculptor Anthony Caro.

"The rest of the world is being seduced by a lot of bad stuff. They should look west. Edmonton is the most lively place for sculpture in the world—and it's not sufficiently appreciated by Edmontonians."

Caro, in Edmonton briefly as visiting guest artist with Art and Design, is a steel sculptor whose work has been bought by major collectors around the world, including the Tate Gallery, the Museum of Modern Art, New York, the National Gallery in Washington, and the Art Gallery of Ontario.

"He has taken Henry Moore's place as the premier English sculptor," says Peter Hide (Sculpture). "He's the best sculptor in the world in this genre."

Trained at the Royal Academy as a figurative sculptor, Caro switched

to working in steel "to get more reality into my work, to get it less like a statue," he says. (Steel sculpture was started by Picasso in Paris in 1912; its centre moved to New York, and now is in London with Caro.) Though his sculptures are usually named (largely for convenience), he describes his work as "not a representation of something else."

Can the viewer take it to mean something in particular?

"What does your breakfast mean?" Caro laughs. "I'm not sure what I'm expressing when I make a sculpture—any more than a composer knows what he's expressing when he writes music. But I hope it feeds you—spiritually or emotionally touches you."

During his visit, Caro is creating a large scale steel sculpture in the department and will give critical assessments of students' work.

As Professor Hide explains, a

steel sculptor works with "found" steel pieces (in Edmonton, much of the material comes from the oil patch). "Like an architect, he uses ready-made elements to create his work. He's a builder more than a modeller or a carver."

The sculptor's aides position the chosen pieces according to his directions, move them, adjust them, and at the right moment weld and fix them in place. "It's relationships—relating one thing to another and building a sequence," says Professor Hide.

Sir Anthony (the title was bestowed by the Queen a year ago) plans a side trip to Red Deer to do some bronze casting, before leaving Edmonton in early April. The Edmonton Art Gallery exhibited his work, 16 to 30 March.

Caro's visit was co-sponsored by the University/Community Special Projects Fund. □

## Faculty of Business honors de Grandpré

A social highlight for the Faculty of Business and the Canadian business community is the Dean's MBAA Forum Dinner.

Some 570 people attended the eighth annual installment at the Westin Hotel on 15 March and applauded Jean de Grandpré, chairman of BCE Inc, as he received the Canadian Business Leader Award.

The award recognizes an individual who excels as business leader and who serves as a model to business students.

A Montrealer, Mr de Grandpré was legal counsel (1956-57) to the Royal Commission for Broadcasting. He later served as counsel to Bell Canada in appearances before the government regulatory authorities in Ottawa.

Mr de Grandpré joined Bell Canada in 1966 and progressed steadily up the administrative ladder. In 1976 he was elected chairman and chief executive officer of Bell Canada. He became chairman and CEO of BCE coincident with its creation as a management holding corporation on 28 April 1983.

Mr de Grandpré is Chancellor of McGill University.

The keynote speaker was Allan Taylor, Chairman and CEO of the Royal Bank of Canada. In an address titled "Going Global: The People Challenge," Mr Taylor said the Dean's Forum Dinner is perhaps the most visible evidence of the strong links between the Faculty of Business and the business community. He then injected a word of caution about "the old ways and old attitudes," saying that they're outmoded and that Canada needs a new approach.

Complacency has set in because "we have been sitting on a rich ore body next door to the world's biggest and richest country. To succeed, we must sell and, as we have been learning, it is a different challenge to sell value-added products as opposed to resources."

It's high time Canadians learned to understand the needs and wants of potential customers, Mr Taylor emphasized. Asians and Europeans have been forced by necessity to learn about us—our market, our culture, and our language—and we don't really know theirs, he said.

Speaking to the business students in the audience, Mr Taylor said, "Ideally you should

have some experience in local conditions outside North America. You will require the patience to learn the unstated codes which comprise a culture. You will need to understand that the language of business must be the language of your customers, wherever they live. In short, you will have to become Canadians who can think globally, but act locally."

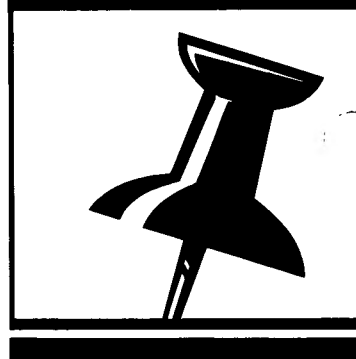
A sense of urgency should underline the preparation of managers to function internationally, he said. "Then once we in the corporate world have taken a long, hard look in the mirror, I would hope we start to communicate those needs to our universities." □

### 'Spectrum' delayed

The inaugural issue of "Spectrum," an illustrated publication about interesting research in progress at the University of Alberta, has been delayed.

Watch for this supplement to *Folio* coming soon. □

## CURRENTS



### Academic Women's Association

The AWA's final meeting of the year and annual general meeting will take place on 5 April, 4-6 pm, in the Saskatchewan Room, Faculty Club.

Guest speaker: Dr. Winnie Tomm, Coordinator, Women's Studies Program.

A wine and cheese social gathering will begin at 4 pm.

### Sign Language Classes

"Spring" sign language classes will be conducted by Disabled Student Services from 8 May to 14 June (Mondays and Wednesdays, 5:30 to 8:30 pm). The fee for the noncredit, introductory level 1 classes is \$70 per person.

Call 492-3381 to register. Deadline: 1 May.

### Women Volunteers Required

Women volunteers (45 to 55 years) are invited to participate in a study comparing taste perception and dietary intake of women with and without breast cancer. In particular, volunteer without breast cancer are needed. If interested, telephone Holly Ames at 492-7674 or 487-7626.

### Bookstore Inventory

The Bookstore will be closed for year-end inventory 30 and 31 March, and 1 April. The Bookstore will reopen on 3 April.

### Faculty Women's Club Honoring Barbara Horowitz

The Faculty Women's Club is holding its annual general meeting Wednesday, 12 April, from 6 to 10 pm in the Faculty Club. This is a special event to honor Barbara Horowitz. Tickets are \$15 and may be obtained by calling Gurjit Singh, 434-7392, or Rhoda Sheinin, 434-6365.

### Reception for Jerome Schein

A reception for Jerome Schein, the first appointee to the David Peikoff Chair of Deafness Studies, will take place on 4 April at 7:15 pm. The reception, in 2-115 Education North, will be hosted by the Department of Educational Psychology.

For further details, call 492-5213 or 492-1141.

### Improve Performance in Life Skills

Ask the Faculty of Extension about seminars/workshops in assertion training for professionals, public speaking, and building communications. For information or brochure, please call 492-5069.



# Expo-Sciences '89 à la Faculté Saint-Jean

Les 3 et 4 mars derniers, la Faculté Saint-Jean accueillait des jeunes de plusieurs écoles françaises et d'immersion de la province qui venaient participer à Expo-sciences '89. Cette exposition scientifique en français et de niveau provincial, la première en Alberta, regroupait des jeunes de la 3e année jusqu'au niveau universitaire. En tout, 35 projets s'étendant de la simple expérimentation en énergie cinétique jusqu'à l'opération d'un système d'alarme au laser furent présentés.

Grâce à la générosité du Bureau du Québec, d'Alberta Education, du Consulat général de France à Edmonton et de la librairie Le Carrefour, près de 3,500\$ en prix ont été décernés aux exposants. Les grands gagnants, Marc Hébert



Deux exposantes heureuses.

et Eric Bouchard, tous deux en 9e année à l'école Maurice Lavallée, ont reçu 600\$ d'Alberta Education

pour leur permettre de participer à l'Expo-Sciences Nationale qui aura lieu sous peu dans l'Est du pays. □

M-149 Biological Sciences Centre.  
31 March, 3:30 pm Robin Liley, Department of Zoology, University of British Columbia, "The Regulation of Reproductive Behaviour in Fish, With Emphasis Upon Rainbow Trout."  
M-149 Biological Sciences Centre.  
7 April, 3:30 pm Janis Weeks, Department of Entomology, University of California, Berkeley, and Department of Biology, University of Oregon, "Hormonally Mediated Changes in Neuronal Structures and Functions During Insect Metamorphosis."  
M-149 Biological Sciences Centre.

## Entomology

30 March, 4 pm Jean Lacoursière, "Behavioural Hydrodynamic Studies: Who Cares?" TBW-1 Tory Breezeway.

## University Library and The Canadian Friends of the Bodleian

30 March, 8 pm Paul Morgan, senior assistant librarian (retired), Special Collections Division, Department of Printed Books, Bodleian Library, Oxford, "Fine Bindings in Oxford Libraries." L-4 Humanities Centre.

## Comparative Literature

31 March, 10 am Didiez Coste, San Diego State University, "Narrative vs. Lyric in Modern Poetry with Special Reference to Wallace Stevens." 326 Arts Building.

## Plant Science

31 March, 11 am George N Oldfield, Department of Plant Pathology, University of California, Riverside, "Eriophyid-Mite Transmission of Fruit-Tree Diseases." 4-10C Agriculture-Forestry Centre.  
31 March, 12:30 pm S Boyetchko, "Mechanisms of Plant Growth Promotion by Rhizobacteria." 1-06 Agriculture-Forestry Centre.  
3 April, 11 am Thomas Oddie, "The Effect of Companion Cropping and Herbicide on Growth of Three Cultivated Grass Species." 5-22 Agriculture-Forestry Centre.  
6 April, 12:30 pm RJ Howard, head, Crop Protection and Utilization Section, Alberta Special Crops and Horticultural Research Centre, Brooks, "Research on Verticillium Wilt of Alfalfa." 723 General Services Building.  
7 April, 12:30 pm R Pluim, "Predation Mechanisms of Nematode—Trapping Fungi." 1-06 Agriculture-Forestry Centre.  
11 April, 12:30 pm CH Park, "Chromosome Doubling: Mechanism, Methodology, and Application in Barley Breeding." 1-06 Agriculture-Forestry Centre.

## International Centre

31 March, noon Alison Rigby will give a demonstration of Caribbean cooking. 172 HUB International.

## Physics

31 March, 2 pm G Schmidt, Stevens Institute of Technology, "Deterministic Chaos: An Introduction." V-121 Physics Building.  
5 April, 3:30 pm SH Lin, Arizona State University, "Recent Development in

## Orrell

Continued from page three

(The Globe, the first home of many of Shakespeare's plays, burnt down in 1613, was rebuilt in 1614 and demolished in 1644.)

"We're offering to play Shakespeare on his original instrument," Dr Orrell told *Folio*. A vast amount of research is being carried out to fashion a public theatre-building that's roughly circular, enclosing a public yard

open to the sky and surrounded by galleries. The main difference between the old and the new Globe will be the seating. Dr Orrell found that the maximum space per Elizabethan spectator was 18 inches "fore and aft and sideways." There will be seating for 3,000, a big roof over the stage so the actors and the audience in the galleries won't get wet. As for the others, "We'll hand out plastic macs if it looks like rain."

The central aim, then, is to explore Shakespeare's text in the original setting. This will be demanding of actors and, to a certain extent, audiences. Voice production, for example, will have to be worked on because it's an open air environment sans loudspeakers. The elevated stage will be devoid of scenery and lighting effects so the players will be called on to perform such feats as creating night in the middle of the afternoon.

Working with the noted American film and stage actor Sam Wanamaker and an international team of specialists (the project comes under the patronage of Prince Philip), Dr Orrell is engrossed in his most significant research undertaking. "In London," he says, "there's no real monument to Shakespeare, and he spent most of his life there, retiring to Stratford in the last years of his life."

Besides writing a book on Shakespeare's Globe, Dr Orrell has produced *The Human Stage: English*

*Theatre Design, 1567-1640 and Fallen Empires: The Lost Theatres of Edmonton, 1881-1914.* ("Fallen Empires was fun because there was a fresh volume of work; things Elizabethan have been pored over so much.")

He's now writing a complete history of the English playhouse, from Roman times to the 20th century, and, for children, "an imaginative account of a day spent in the Globe playhouse." □

## EVENTS



## Talks

### Economics and Sociology

30 March, 2 pm David Foot, University of Toronto, "The Inevitable Surprises: Demographic Change and Public Policy in Canada." TBW-2 Tory Breezeway.

### Zoology

30 March, 4 pm David P Philipp, fish geneticist, Illinois Natural History Survey, "Fish Introductions—When Do Good Intentions Go Bad?"

## Fait AcCompLit invites submissions

*Fait AcCompLit* (a journal produced by comparative literature students at the University of Alberta) invites submissions for its annual issue.

Creative fiction/poetry, translations or papers on any aspect of literature, art, philosophy or critical theory are welcome. (Papers written on other areas of interest or in languages other than English will also be considered.)

Contributions should be forwarded to Janice Allan, Karin Beeler, Teresa Cunningham, Wei-Qun Dai, or Walt Xu, Department of Comparative Literature, 347 Arts Building.

Deadline: 30 April.  
Copies of *Fait AcCompLit* (Vol. I, no. iii) are available in the main office, Department of Comparative Literature, for \$3. □

Radiationless Transitions." 631 Physics Building.  
7 April, 2 pm Serge Pineault, Université Laval, "The Neutron-Star—Comet—Dinosaur Connection." V-121 Physics Building.

## Catholic Campus Ministry

31 March, 2 pm Joseph Buijs, "Christian Philosophy." Faculty Lounge, St. Joseph's College.

## Economics

31 March, 3 pm Yukio Noguchi, Department of Economics, Hitotsubashi University, "International Implications of Japan's Fiscal Policy and Tax Reform." 8-22 Tory Building.

## Hillel Jewish Students' Association

31 March, 3 pm Symposium: "Religion and Tolerance"—after "The Last Temptation of Christ" and "The Satanic Verses." Muslim, Christian and Jewish Speakers. 14-6 Tory Building.

## Marketing and Economic Analysis

31 March, 3 pm Denis Johnson, "Applications of Geographical Information Systems to Marketing." Stollery Centre, Business Building.

## History

31 March, 3:05 pm Norman Ingram, "Neither Right nor Left? . . . Or Pacifism Versus Antifascism in Late Interwar France." 2-58 Tory Building.

## Geology and the P.S. Warren Geological Society

3 April, 11 am Naresh Kumar, distinguished lecturer for the American Association of Petroleum Geologists, "Development Geology of Giant Fields on Alaskan North Slope—Key to Successful Reservoir Management." 1-04 Earth Sciences Building.

## Boreal Institute and Zoology

3 April, noon Sandra Zohar, "The Overwintering Behaviour of Parasitized Amphipods." B-105 Biological Sciences Centre.  
10 April, noon Greg Henry, "Reaction of Vegetation to Devastating Overgrazing: The Case of Rideout Island, NWT." B-105 Biological Sciences Centre.

## Sociology

3 April, noon Ted Hewitt, Department of Sociology, University of Lethbridge, "Recent Trends in Latin American Religion and Politics." 5-15 Tory Building.

## St. Joseph's College

3 April, 2:30 pm Ted Hewitt, Department of Sociology, University of Lethbridge, "The Option for the Poor in Canadian Catholicism." St. Joseph's College.

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## Rural Economy

3 April, 3:15 pm Michele Veeman, "Competition for Export Market Shares in the World Wheat Economy, 1958 to 1985." 519 General Services Building.

## English

3 April, 4 pm Anne McWhir, Calgary, "Purity and Disgust: Wordsworth's Preface to *Lyrical Ballads* and 'The Idiot Boy'." L-3 Humanities Centre.  
4 April, 4 pm Jim Forrest, "Two Talks on 'Hamlet': Part One." 5-20 Humanities Centre.  
5 April, 4 pm Dr Forrest, "Two Talks on 'Hamlet': Part Two." 5-20 Humanities Centre.  
11 April, 4 pm Gary Kelly, "Romantic Feminism." L-3 Humanities Centre.

## Alberta Heritage Foundation for Medical Research

4 April, 4 pm Howard Kaplan, assistant professor, Department of Biochemistry and Molecular Biology, M.D. Anderson Cancer Center, University of Texas, "Studies on Oligosaccharyl Transferase: The Central Enzyme in the Pathway for N-Linked Glycoproteins." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

## Forest Science

5 April, noon Mike Quinn, "Factors Regulating the Breeding Population, Reproductive Success and Mating System of House Wrens (*Troglodytes Aedon*) at Beaverhill Lake, Alberta." 4-1 Mechanical Engineering Building.

## Techniques in Cell and Molecular Biology

5 April, noon Freda Miller, "In Situ Hybridization." Presented by Anatomy and Cell Biology. 6-28 Medical Sciences Building.

## Soil Science and Agricultural Engineering

5 April, 12:30 pm RA Feddes, Institute for Land and Water Management Research, Wageningen, The Netherlands, "Modelling the Soil-Water-Plant-Atmosphere System." 2-36 Earth Sciences Building.  
6 April, 3 pm Dr Feddes, "Water Management with Links to Agrometeorological Research and Remote Sensing." 1-13 Agriculture-Forestry Centre.

## Entomology and Genetics

5 April, 4 pm Margaret Kidwell, University of Arizona, Tucson, "Interspecific Transfer of Transposable P Elements in *Drosophila*." M-149 Biological Sciences Centre.  
6 April, 4 pm Dr Kidwell, "Evolution of Regulation of Transposable Elements." TBW-1 Tory Breezeway.

## Heritage Cardiovascular Disease Group

6 April, noon Gary D. Lopaschuk, "Protection of the Ischemic Heart by Metabolic Intervention." Conference

Room, 2nd Floor, Heritage Medical Research Centre.

## Soil Science

6 April, 12:30 pm KL Haugen-Kozyra, "N Cycling and Floral/Faunal Dynamics in Conventional Till and Zero Till Systems." 2-36 Earth Sciences Building.  
13 April, 12:30 pm M Nyborg, "Fate of 15N-Labelled Nitrogen Added to Soil: The Alberta Experience." 2-36 Earth Sciences Building.

## Rehabilitation Medicine

10 April, noon Jerome Schein, "New Technologies in the Rehabilitation of Hearing Impaired People." 109 Corbett Trailer Complex.

## Chaplains' Association

10 April, 1 pm M Horowitz will keynote the symposium, "Educating the Human: The Human Spirit and the Crisis of the University." Panelists from various parts of the University will respond. Express Lounge, SUB.

## Entomology

13 April, 4 pm GW Courtney, "Lower Origins of a Higher Insect: Hypotheses on the Evolution of Mountain Midges (Diptera: Deuterophlebiidae)." TBW-1 Tory Breezeway.

## Animal Science

14 April, 3 pm Mike Dugan, "Hirsuteness, Image and Performance." 1-13 Agriculture-Forestry Centre.

## Genetics

14 April, 4 pm Patricia A Romans, National Institutes of Health, Bethesda, Maryland, "Insect Immunity and Prospects for Genetically Engineering Mosquitoes Refractory to Malaria Transmission." G-217 Biological Sciences Centre.

## The Arts

## Exhibitions Manulife Place

Until 31 March "BFA Graduating Exhibition 1989." 6th Floor, 10180 101 Street.

## McMullen Gallery

Until 2 April "Japan in Pictures." Call for gallery hours: 492-4211 or 492-8428.

## FAB Gallery

Until 9 April "Bank's Floreligium"—illustrations of flora and fauna from Captain Cook's first voyage to the south Pacific, 1768-1771.  
Until 9 April "Wendy Christiansen: MVA Thesis Exhibition"—printmaking.

## Studio Theatre

30 March to 8 April "The Diviners." 492-2495.

## Music

30 March, 8 pm The Chamber Winds Concert—Malcolm Forsyth, director. Admission.  
2 April, 3 pm Concert Band Concert—William H Street, director. Admission.  
2 April, 8 pm Madrigal Singers Concert—Robert de Greece, director. Admission.  
4 April, 8 pm Academy Strings Concert—Norman Nelson, director. Admission.  
7 April, 8 pm Concert Choir Concert—Bruce Wheatcroft, director. Admission.  
9 April, 8 pm Chamber Music Recital.  
14 April, 1 pm Meet the Masters—Guitar Masterclass—Norbert Kraft, guitarist. Admission: \$5.  
All events in Convocation Hall.  
Admission: \$5/adults; \$3/students and seniors.

## Edmonton Chamber Music Society

5 April, 8 pm  
"Kalichstein-Robinson-Laredo Trio and David Jolley." 433-8102. SUB Theatre.

## Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

## Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 24 March. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Clerk Steno III (Part-time), Health Sciences Laboratory Animal Services, (\$711-\$893) (prorated)  
Clerk Steno III (Term to 6 November 1990), Faculty of Extension, (\$1,421-\$1,785)  
Clerk Steno III (Trust), Canadian Institute of Ukrainian Studies, (\$1,421-\$1,785)  
Clerk Steno III (Trust), Continuing Medical Education, (\$1,421-\$1,785)  
Clerk Steno III, Faculty of Agriculture and Forestry, (\$1,421-\$1,785)  
Clerk Typist III, English, (\$1,421-\$1,785)  
Senior Financial Records Clerk, Technical Services, (\$1,421-\$1,785)  
Library Clerk III, Faculté Saint-Jean, (\$1,421-\$1,785)  
Student Records Processing Clerk II (Term to 5 October 1989), Rehabilitation Medicine, (\$1,584-\$2,023)  
Secretary (Trust), Faculty of Medicine, (\$1,584-\$2,023)  
Secretary, Centre for Advanced Study in Theoretical Psychology, (\$1,584-\$2,023)  
Administrative Clerk, Office of Student Awards, (\$1,584-\$2,023)  
Medical Steno (Trust), Medicine

(Division of Infectious Diseases), (\$1,584-\$2,023)  
 Departmental/Executive Secretary, Office of the Vice-President (Research), (\$1,785-\$2,297)  
 Assistant Buyer, Materials Management, (\$1,785-\$2,297)  
 Age Helper (Temporary), Physical Ant, (\$8.20-\$10.30/hour)  
 Animal Assistant II (Part-time/Hourly), Health Sciences Laboratory Animal Services, (\$9.37-\$11.77/hour)  
 Audio Visual Assistant, Health Sciences Media Services, (\$1,276-\$1,584)  
 Technician I (Hourly/Trust), Rehabilitation Medicine, (\$10.83-\$13.91/hour)  
 Technician I (Trust/Term to 1 April 1991), Psychiatry, (\$1,643-\$2,109)  
 Maintenance Worker I, Housing and Food Services, (\$1,714-\$2,200)  
 Equipment Supervisor, Physical Education (Support Services) (\$1,863-\$2,397)  
 Biology Technician II/Technologist I (Trust), Genetics, (\$1,863-\$2,611)  
 Engineering Technologist II, Physical Plant - Plant Operations, (\$1,939-\$2,504)  
 Technologist I/II (Trust), Pathology, (\$2,023-\$2,851)  
 Biology Technologist I (Trust), Genetics, (\$2,023-\$2,611)  
 Biochemistry Technologist I/II (Trust), Biochemistry, (\$2,023-\$2,851)  
 Technologist I (Split-funded), Zoology, (\$2,023-\$2,611)  
 Technologist I (Trust), Immunology, (\$2,023-\$2,611)  
 Laboratory Technologist I, Provincial Laboratory, (\$2,023-\$2,611)  
 Administrative Assistant I, Housing and Food Services, (\$2,023-\$2,611)  
 Nurse (Trust), Medicine, (\$2,109-\$2,730)  
 Technologist II (Trust/Term), Medicine, (\$2,200-\$2,851)  
 Electronics Technician III, Physical Plant Energy Management, (\$2,200-\$2,851)  
 Programmer Analyst III, Computer Engineering, (\$2,851-\$3,723)

For vacant Library positions, telephone 492-3790.

Library Assistant I, Library (Acquisitions), (\$1,469-\$1,863)

## Advertisements

### Accommodations available

Rent - Grandview. 2,300 sq ft split-level. Quiet crescent, pie-shaped lot. September 1989 to April 1990.

Appliances, jacuzzi, microwave. \$1,350/month. Western Relocation Services Limited, 438-1044.  
 Rent - Lendrum. Three-bedroom house. Finished basement, partially furnished. Available 1 July 1989 for 14 months. Single garage. Western Relocation Services Limited, 438-1044.  
 Rent - Riverdale. Sparkling, new, two-storey, two-bedroom home. March 1989. \$1,200/month. Western Relocation Services Limited, 438-1044.  
 Rent - Country living downtown! Unique setting, near river, one-bedroom, furnished home. May 1989. Two-year lease preferred. \$900/month. Western Relocation Services Limited, 438-1044.  
 Sale - University area. \$98,500. Nicely upgraded, three-bedroom semi, comfortable basement suite, hardwood floors. Ed Lastiwka, 437-7480, 437-4984, Royal LePage Realty.  
 Rent - Greenfield. 1 August 1989-30 June 1990. Fully-furnished, four-bedroom bungalow, garage. Close to French immersion elementary schools, 15 minute bus to University. \$800 plus utilities. 435-5488.  
 Rent - Four-bedroom, furnished home with beautiful, outdoor swimming pool and jacuzzi. Lansdowne. Available from September 1989-August 1990. 492-3516, 434-3116.  
 Rent - Fully-furnished townhouse. May-July. \$695. 435-1710 or 492-5731 bus.  
 Rent - July 1989-July 1990. Four bedroom, fully furnished, Mill Creek. Piano, many appliances. Ideal for relocation, study leave family. 433-8510.  
 Sale - Ravine bungalow west end. Three bedrooms, close to amenities. Resi Richter, Royal LePage, 483-9432.  
 Sale - Contemporary bungalow, Valleyview. Three bedrooms, family room. Near river valley. Resi Richter, Royal LePage, 483-9432.  
 Sale - Laurier. Brick bungalow, 1,950', three bedrooms, family room, fully developed basement, pool, jacuzzi. Resi Richter, Royal LePage, 483-9432.  
 Rent - Four-bedroom house with fireplace, sundeck. Available furnished, August, for one year. \$900 plus utilities. 492-2302 or 436-8808.  
 Rent - Study leave home, Riverbend. Summer 1989-summer 1990. Four bedroom, furnished, piano, mature yard. No smokers. \$1,000. 435-8649.  
 Rent - Quiet bachelor suite, University area. Non-smoker. 436-2507.  
 Rent - Large furnished house, walking minutes from University campus/hospital. 432-7845 (evenings).

Rent - Parkallen. July 1989-June 1990. Quiet, renovated, three-bedroom, fully-furnished semi-bungalow. Close to schools, transportation, University. \$750. 492-5942.  
 Rent - Spacious, two-bedroom home, two blocks from University. One year beginning August 1989. No smokers or pets please. Rent and furnishings negotiable. 439-3360.  
 Sale - Adjacent to University Hospitals. Spacious, elegant townhouse. Five appliances, fireplace, fully carpeted, two bedrooms, 1 1/2 baths, underground heated parking. Perfect for a working couple. Asking \$102,000. 439-2269 evenings.  
 Rent - Furnished two-bedroom home, University area. Garage, garden. \$850. 436-4872.  
**Accommodations wanted**  
 Architect's family, presently housesitting for study leave, interested in providing this service for 1-2 years. University area, commencing anytime-September 1989. 439-1872 after 6 pm.  
 Professional housesitter will care for your home for four months or longer, beginning September or October. References. 435-2453.  
 Physician's family requires three-bedroom home in southwest Edmonton for July-August 1989. 436-0915 after 6 pm.

### Automobiles and others

1987 Volvo 740 turbo, red, 5-speed, air, leather trim, 24,000 km, records. Extras: IPD bars, four Yokos on mags, more. Spotless. One year unlimited warranty. \$26,500. 492-2676, 439-4155.

1982 Honda Civic, GL1500, 5-speed, hatchback, original owner, 81,000 km, silver exterior, black interior, AM/FM cassette, immaculate throughout. \$4,250, obo. 454-0943.

### Goods for sale

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The Centre for Constitutional Studies, at the Faculty of Law at the University of Alberta requires an Executive Director who will be responsible for the day to day operation of the Centre. Among the duties of the Executive Director are the following:

1. Maintenance of the Administrative Office of the Centre;
2. Supervision and co-ordination of employees of the Centre;
3. Supervision of accounts and preparation of funding proposals;
4. Supervision and management of the Charter of Rights Data Base;
5. Editor of the Centre newsletter;
6. Liaison with the University community, other research institutes and the community at large;
7. Administration of the Public Lecture Series;
8. Co-ordinator of conference preparation and organization;
9. Co-ordination of the publishing activities of the Centre;
10. Co-ordination of public relations for the Centre;
11. Co-ordination and logistical support for Visiting Scholars;
12. Other duties as assigned by the Board.

Applicants for this position should have an LL.B. or graduate training in the social sciences or humanities and must have demonstrated administrative capabilities. Fluency in both official languages is an asset.

**Term of Employment:** One year with the opportunity for renewal  
**Salary Range:** \$35,000 - \$40,000

**Deadline:** Application must be received no later than April 30th, 1989.

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